SEQUENCE LISTING

<110> Law, Lane K.
Davidson, Beverly L.

<120> Adenovirus serotype 30 (Ad30)

<130> 875.044US1

<160> 24

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 371
<212> PRT
<213> Adenovirus

<400> 1

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 1               5                  10                  15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
            20                  25                  30
Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu
        35                  40                  45
Lys Leu Ala Asp Pro Ile Ala Ile Thr Asn Gly Asp Val Ser Leu Lys
    50                  55                  60
Val Gly Gly Gly Leu Thr Val Glu Gln Asp Ser Gly Asn Leu Ser Val
65                  70                  75                  80
Asn Pro Lys Ala Pro Leu Gln Val Gly Thr Asp Lys Lys Leu Glu Leu
                85                  90                  95
Ala Leu Ala Pro Pro Phe Asp Val Arg Asp Asn Lys Leu Ala Ile Leu
            100                 105                 110
Val Gly Asp Gly Leu Lys Val Ile Asp Arg Ser Ile Ser Asp Leu Pro
        115                 120                 125
Gly Leu Leu Asn Tyr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Asn
    130                 135                 140
Glu Glu Leu Lys Asn Asp Asp Gly Ser Asn Lys Gly Val Gly Leu Cys
145                 150                 155                 160
Val Arg Ile Gly Glu Gly Gly Gly Leu Thr Phe Asp Asp Lys Gly Tyr
                165                 170                 175
Leu Val Ala Trp Asn Asn Lys His Asp Ile Arg Thr Leu Trp Thr Thr
            180                 185                 190
Leu Asp Pro Ser Pro Asn Cys Lys Ile Asp Ile Glu Lys Asp Ser Lys
        195                 200                 205
Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val
    210                 215                 220
Ser Leu Ile Ile Val Asn Gly Lys Phe Lys Ile Leu Asn Asn Lys Thr
225                 230                 235                 240
Asp Pro Ser Leu Pro Lys Ser Phe Asn Ile Lys Leu Leu Phe Asp Gln
                245                 250                 255
Asn Gly Val Leu Leu Glu Asn Ser Asn Ile Glu Lys Gln Tyr Leu Asn
            260                 265                 270
Phe Arg Ser Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile
        275                 280                 285
Gly Phe Met Pro Asn Leu Leu Ala Tyr Ala Lys Ala Thr Thr Asp Gln
    290                 295                 300
Ser Lys Ile Tyr Ala Arg Asn Thr Ile Tyr Gly Asn Ile Tyr Leu Asp
305                 310                 315                 320
```

```
Asn Gln Pro Tyr Asn Pro Val Val Ile Lys Ile Thr Phe Asn Asn Glu
                325                 330                 335
Ala Asp Ser Ala Tyr Ser Ile Thr Phe Asn Tyr Ser Trp Thr Lys Asp
            340                 345                 350
Tyr Asp Asn Ile Pro Phe Asp Ser Thr Ser Phe Thr Phe Ser Tyr Ile
        355                 360                 365
Ala Gln Glu
    370
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<210> 2
<211> 362
<212> PRT
<213> Adenovirus

<400> 2

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Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
 1               5                  10                  15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
            20                  25                  30
Val Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu
        35                  40                  45
Lys Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys
    50                  55                  60
Val Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val
65                  70                  75                  80
Asn Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala
                85                  90                  95
Leu Asp Ala Pro Phe Asp Val Ile Asp Asn Lys Leu Thr Leu Leu Ala
            100                 105                 110
Gly His Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly
        115                 120                 125
Leu Arg Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
    130                 135                 140
Ser Thr Asp Asn Gly Gly Thr Val Cys Val Arg Val Gly Glu Gly Gly
145                 150                 155                 160
Gly Leu Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys
                165                 170                 175
Glu Asp Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys
            180                 185                 190
Lys Ile Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys
        195                 200                 205
Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Asp Gly
    210                 215                 220
Lys Tyr Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe
225                 230                 235                 240
Thr Ile Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser
                245                 250                 255
Asn Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met
            260                 265                 270
Ser Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala
        275                 280                 285
Tyr Pro Lys Pro Thr Ala Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val
    290                 295                 300
Tyr Gly Asn Ile Tyr Leu Gly Gly Lys Pro Asp Gln Pro Val Thr Ile
305                 310                 315                 320
Lys Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe
                325                 330                 335
```

```
Asp Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr
            340                 345                 350
Ser Phe Thr Phe Ser Tyr Ile Ala Gln Glu
        355                 360
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<210> 3
<211> 366
<212> PRT
<213> Adenovirus

<400> 3

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Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
 1               5                  10                  15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
            20                  25                  30
Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu
        35                  40                  45
Lys Leu Ala Asp Pro Ile Thr Ile Ala Asn Gly Asp Val Ser Leu Lys
    50                  55                  60
Val Gly Gly Gly Leu Thr Leu Gln Glu Gly Ser Met Thr Val Asp Pro
65                  70                  75                  80
Lys Ala Pro Leu Gln Leu Ala Asn Asn Lys Lys Leu Glu Leu Val Tyr
                85                  90                  95
Val Asp Pro Phe Glu Val Ser Ala Asn Lys Leu Ser Leu Lys Val Gly
            100                 105                 110
His Gly Leu Lys Ile Leu Asp Asp Lys Ser Ala Gly Gly Leu Lys Asp
        115                 120                 125
Leu Ile Gly Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
    130                 135                 140
Asn Leu Gln Asn Thr Asp Gly Ser Ser Arg Gly Ile Gly Ile Ser Val
145                 150                 155                 160
Arg Ala Arg Glu Gly Leu Thr Phe Asp Asn Asp Gly Tyr Leu Val Ala
                165                 170                 175
Trp Asn Pro Lys Tyr Asp Thr Arg Thr Leu Trp Thr Thr Pro Asp Thr
            180                 185                 190
Ser Pro Asn Cys Arg Ile Asp Lys Glu Lys Asp Ser Lys Leu Thr Leu
        195                 200                 205
Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile
    210                 215                 220
Val Val Ser Gly Lys Tyr Gln Tyr Ile Asp His Ala Thr Asn Pro Thr
225                 230                 235                 240
Leu Lys Ser Phe Lys Ile Lys Leu Leu Phe Asp Asn Lys Gly Val Leu
                245                 250                 255
Leu Pro Ser Ser Asn Leu Asp Ser Thr Tyr Trp Asn Phe Arg Ser Asp
            260                 265                 270
Asn Leu Thr Val Ser Glu Ala Tyr Lys Asn Ala Val Glu Phe Met Pro
        275                 280                 285
Asn Leu Val Ala Tyr Pro Lys Pro Thr Thr Gly Ser Lys Lys Tyr Ala
    290                 295                 300
Arg Asp Ile Val Tyr Gly Asn Ile Tyr Leu Gly Gly Leu Ala Tyr Gln
305                 310                 315                 320
Pro Val Val Ile Lys Val Thr Phe Asn Glu Glu Ala Asp Ser Ala Tyr
                325                 330                 335
Ser Ile Thr Phe Glu Phe Val Trp Asn Lys Glu Tyr Ala Arg Val Glu
            340                 345                 350
Phe Glu Thr Thr Ser Phe Thr Phe Ser Tyr Ile Ala Gln Gln
        355                 360                 365
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<210> 4
<211> 362
<212> PRT
<213> Adenovirus

<400> 4
Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
 1   5   10   15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
            20   25   30
Val Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu
        35   40   45
Lys Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys
    50   55   60
Val Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val
65   70   75   80
Asn Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala
                85   90   95
Leu Asp Ala Pro Phe Asp Val Ile Asp Asn Lys Leu Thr Leu Leu Ala
            100   105   110
Gly His Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly
        115   120   125
Leu Arg Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
    130   135   140
Ser Thr Asp Asn Gly Gly Thr Val Cys Val Arg Val Gly Glu Gly Gly
145   150   155   160
Gly Leu Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys
                165   170   175
Glu Asp Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys
            180   185   190
Lys Ile Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys
        195   200   205
Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Asp Gly
    210   215   220
Lys Tyr Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe
225   230   235   240
Thr Ile Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser
                245   250   255
Asn Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met
            260   265   270
Ser Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala
        275   280   285
Tyr Pro Lys Pro Thr Ala Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val
    290   295   300
Tyr Gly Asn Ile Tyr Leu Gly Gly Lys Pro Asp Gln Pro Val Thr Ile
305   310   315   320
Lys Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe
                325   330   335
Asp Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr
            340   345   350
Ser Phe Thr Phe Ser Tyr Ile Ala Gln Glu
        355   360

<210> 5
<211> 581

<212> PRT
<213> Adenovirus

<400> 5

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Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
 1               5                  10                  15
Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr Pro Pro
            20                  25                  30
Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly Val Leu Ser
        35                  40                  45
Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly Met Leu Ala Leu
    50                  55                  60
Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly Asn Leu Thr Ser
65                  70                  75                  80
Gln Asn Val Thr Thr Val Ser Pro Pro Leu Lys Lys Thr Lys Ser Asn
                85                  90                  95
Ile Asn Leu Glu Ile Ser Ala Pro Leu Thr Val Thr Ser Glu Ala Leu
            100                 105                 110
Thr Val Ala Ala Ala Ala Pro Leu Met Val Ala Gly Asn Thr Leu Thr
        115                 120                 125
Met Gln Ser Gln Ala Pro Leu Thr Val His Asp Ser Lys Leu Ser Ile
    130                 135                 140
Ala Thr Gln Gly Pro Leu Thr Val Ser Glu Gly Lys Leu Ala Leu Gln
145                 150                 155                 160
Thr Ser Gly Pro Leu Thr Thr Thr Asp Ser Ser Thr Leu Thr Ile Thr
                165                 170                 175
Ala Ser Pro Pro Leu Thr Thr Ala Thr Gly Ser Leu Gly Ile Asp Leu
            180                 185                 190
Lys Glu Pro Ile Tyr Thr Gln Asn Gly Lys Leu Gly Leu Lys Tyr Gly
        195                 200                 205
Ala Pro Leu His Val Thr Asp Asp Leu Asn Thr Leu Thr Val Ala Thr
    210                 215                 220
Gly Pro Gly Val Thr Ile Asn Asn Thr Ser Leu Gln Thr Lys Val Thr
225                 230                 235                 240
Gly Ala Leu Gly Phe Asp Ser Gln Gly Asn Met Gln Leu Asn Val Ala
                245                 250                 255
Gly Gly Leu Arg Ile Asp Ser Gln Asn Arg Arg Leu Ile Leu Asp Val
            260                 265                 270
Ser Tyr Pro Phe Asp Ala Gln Asn Gln Leu Asn Leu Arg Leu Gly Gln
        275                 280                 285
Gly Pro Leu Phe Ile Asn Ser Ala His Asn Leu Asp Ile Asn Tyr Asn
    290                 295                 300
Lys Gly Leu Tyr Leu Phe Thr Ala Ser Asn Asn Ser Lys Lys Leu Glu
305                 310                 315                 320
Val Asn Leu Ser Thr Ala Lys Gly Leu Met Phe Asp Ala Thr Ala Ile
                325                 330                 335
Ala Ile Asn Ala Gly Asp Gly Leu Glu Phe Gly Ser Pro Asn Ala Pro
            340                 345                 350
Asn Thr Asn Pro Leu Lys Thr Lys Ile Gly His Gly Leu Glu Phe Asp
        355                 360                 365
Ser Asn Lys Ala Met Val Pro Lys Leu Gly Thr Gly Leu Ser Phe Asp
    370                 375                 380
Ser Thr Gly Ala Ile Thr Val Gly Asn Lys Asn Asn Asp Lys Leu Thr
385                 390                 395                 400
Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn Ala Glu
                405                 410                 415
Lys Asp Ala Lys Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile
            420                 425                 430
```

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Leu Ala Thr Val Ser Val Leu Ala Val Lys Gly Ser Leu Ala Pro Ile
        435                 440                 445
Ser Gly Thr Val Gln Ser Ala His Leu Ile Ile Arg Phe Asp Glu Asn
    450                 455                 460
Gly Val Leu Leu Asn Asn Ser Phe Leu Asp Pro Glu Tyr Trp Asn Phe
465                 470                 475                 480
Arg Asn Gly Asp Leu Thr Glu Gly Thr Ala Tyr Thr Asn Ala Val Gly
                485                 490                 495
Phe Met Pro Asn Leu Ser Ala Tyr Pro Lys Ser His Gly Lys Thr Ala
            500                 505                 510
Lys Ser Asn Ile Val Ser Gln Val Tyr Leu Asn Gly Asp Lys Thr Lys
        515                 520                 525
Pro Val Thr Leu Thr Ile Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp
    530                 535                 540
Thr Thr Pro Ser Ala Tyr Ser Met Ser Phe Ser Trp Asp Trp Ser Gly
545                 550                 555                 560
His Asn Tyr Ile Asn Glu Ile Phe Ala Thr Ser Ser Tyr Thr Phe Ser
                565                 570                 575
Tyr Ile Ala Gln Glu
            580
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<210> 6
<211> 32
<212> DNA
<213> Adenovirus

<400> 6
cgggatccgc caccatgtca aagaggctcc gg 32

<210> 7
<211> 28
<212> DNA
<213> Adenovirus

<400> 7
cgggatcctr attcttgggc yatatagg 28

<210> 8
<211> 27
<212> DNA
<213> Adenovirus

<400> 8
cgcggatccg cgatgaagcg cgcaaga 27

<210> 9
<211> 36
<212> DNA
<213> Adenovirus

<400> 9
gattgggtca gccagtttca aagagagtac cccagg 36

<210> 10
<211> 33
<212> DNA
<213> Adenovirus

<400> 10
cctggggtac tctctttgaa actggctgac cca 33

<210> 11
<211> 27
<212> DNA
<213> Adenovirus

<400> 11
aaaactagtt cattcttggg cgatata 27

<210> 12
<211> 1116
<212> DNA
<213> Adenovirus

<400> 12
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cggaatcaga atatcccctt ccttactccc ccctttgtct catccgatgg attcaaaaac 120
ttcccacctg gggtcctgtc actcaaactg gctgacccaa tcgccatcac taatggggat 180
gtctcactca aggtgggagg gggactaact gtggaacaag atagtggaaa cctaagtgta 240
aaccctaagg ctccattgca agttggaaca gacaaaaaac tggaattggc tttagcacct 300
ccatttgatg tcagagataa caagctagct attctagtag gagatggatt aaaggtaata 360
gatagatcaa tatctgattt gccaggtttg ttaaactatc ttgtagtttt gactggcaaa 420
ggaattggaa atgaagaatt aaaaaatgac gatggtagca ataaaggagt cggtttatgt 480
gtgagaattg gagaaggagg tggtttaact tttgatgata aaggttattt agtagcatgg 540
aacaataaac atgacatccg cacactttgg acaactttag acccttctcc aaattgtaag 600
atagatatag aaaaagactc aaaactaact ttggtactga caaagtgcgg aagtcagatt 660
ttggcaaatg tatctctaat tatagtcaac ggaaagttca agatccttaa taacaaaaca 720
gacccatccc tacctaaatc atttaacatc aaactactgt ttgatcaaaa tggagttcta 780
ttggaaaatt caaacattga aaaacagtac ctaaacttta gaagtggaga ctctattctt 840
ccagagccat ataaaaatgc aattggattt atgcctaatt tactagctta tgctaaagct 900
acaactgatc agtctaaaat ttatgcaagg aacactatat atggaaatat ctacttagat 960
aatcagccat ataatccagt tgtaattaaa attactttta ataatgaagc agatagtgct 1020
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acttcattta ccttctccta tatcgcccaa gaatga 1116

<210> 13
<211> 14
<212> PRT
<213> Adenovirus

<400> 13
Leu Trp Thr Thr Leu Asp Pro Ser Pro Asn Cys Lys Ile Asp
1 5 10

<210> 14
<211> 14
<212> PRT
<213> Adenovirus

<400> 14
Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn
1 5 10

<210> 15
<211> 14
<212> PRT

<213> Adenovirus

<400> 15
Leu Trp Thr Thr Pro Asp Pro Ser Pro Asn Cys Arg Ile His
 1   5   10

<210> 16
<211> 14
<212> PRT
<213> Adenovirus

<400> 16
Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile Asp
 1   5   10

<210> 17
<211> 14
<212> PRT
<213> Adenovirus

<400> 17
Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile Asp
 1   5   10

<210> 18
<211> 14
<212> PRT
<213> Adenovirus

<400> 18
Leu Trp Thr Gly Pro Lys Pro Glu Ala Asn Cys Ile Ile Glu
 1   5   10

<210> 19
<211> 18
<212> PRT
<213> Adenovirus

<400> 19
Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile Gly Phe Met
 1   5   10   15
Pro Asn

<210> 20
<211> 18
<212> PRT
<213> Adenovirus

<400> 20
Leu Asp Pro Glu Tyr Trp Asn Phe Arg Asn Gly Asp Leu Thr Glu Gly
 1   5   10   15
Thr Ala

<210> 21
<211> 18
<212> PRT

<213> Adenovirus

<400> 21
Leu Lys Lys His Tyr Trp Asn Phe Arg Asn Gly Asn Ser Thr Asn Ala
 1   5   10   15
Asn Pro

<210> 22
<211> 18
<212> PRT
<213> Adenovirus

<400> 22
Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met Ser
 1   5   10   15
Thr Ala

<210> 23
<211> 18
<212> PRT
<213> Adenovirus

<400> 23
Leu Asp Ser Thr Tyr Trp Asn Phe Arg Ser Asp Asn Leu Thr Val Ser
 1   5   10   15
Glu Ala

<210> 24
<211> 8
<212> PRT
<213> Adenovirus

<400> 24
Ser Ala Arg Gly Phe Met Pro Ser
 1   5